

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for digitally processing a signal in a frequency domain containing regular ~~or quasi-regular~~ elements of unwanted signal, the method comprising the steps of:

(i) establishing timing characteristics of the unwanted signal elements in a portion of said signal;

(ii) generating a time domain window function using said established timing characteristics, said time domain window function being a sinusoidal function having a zero crossing substantially coinciding with the position of each unwanted signal element; and

(iii) applying the generated window function to said signal portion to selectively reduce the amplitude of said unwanted signal elements relative to other elements of said signal.

2. (Canceled)

3. (Original) A method according to claim 1, further comprising the steps of:

(iv) applying a Fourier transform to the signal output from step (iii); and

(v) applying an algorithm to restore the shape of peaks in the transformed signal to an approximation of their form in the absence of said unwanted signal elements.

4. (Canceled)